

**JEFFERSON METZ FOX, Ph.D.**  
EAST-WEST CENTER  
1601 East-West Road, Honolulu, HI 96848  
Tel: 808-944-7248 Fax: 808-944-7298 Email: foxj@eastwestcenter.org

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### **AREAS OF SPECIALIZATION**

- Land cover/land-use change; climate variability, change, and risk
- Community-based management of natural resources
- Forest fragmentation and degradation
- Spatial information technologies and society

Over the past half century Southeast Asia has witnessed a major shift from predominantly subsistence agrarian economies to industrialized societies. These changes have been accompanied by growing urban populations and establishment of a number of regional megacities. Simultaneously, the agricultural frontier has advanced as demand for land and resources from growing population, both within the subregion and from outside, has increased. My work links land-use and land-cover changes to macro-scale changes in the political economy of each country, and to local-scale impacts on different segments of the communities studied. I have examined the effect of climate change on land use and people's livelihoods; I have also been instrumental in establishing GIS/remote sensing laboratories in numerous universities and organizations across Southeast Asia.

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### **PROFESSIONAL EXPERIENCE**

Fellow/Senior Fellow	October 1985 to present
Coordinator, Environmental Studies	August 2001 to July 2011
Interim Director of Research	January to December 2001
Director, Program on Environment	October 1997 to January 1999

- Current responsibilities include:
  - Developing a research program that promotes an understanding of resource management issues in Asia; publishing research findings and emphasizing policy implications; writing grant proposals to fund research and the involvement of participants in research activities; and advising foreign and American graduate students.
- Specific activities include:
  - Maintaining affiliate graduate faculty status at the University of Hawaii in the departments of Geography, Anthropology, Urban and Regional Planning, and Environmental Studies and Resource Management. Supervising students doing independent readings, serving on Ph.D. committees, and working closely with joint and post-doctoral students.

Natural Resources and Environment Specialist	1983 to 1985
Agricultural Development Council/Ford Foundation	Yogyakarta, Indonesia
Taught remote sensing, land-use evaluation, natural resources planning and management, and statistics at Gadjah Mada University.	
Watershed Management Specialist	1980 to 1981
United States Agency for International Development	Kathmandu, Nepal
Designed institutional framework for land management and outlined short- and long-term policies for managing the public lands of a study village.	
Research Assistant	1977 to 1980
Institute of Environmental Studies, University of Wisconsin	Madison, Wisconsin
Digitally enhanced aerial images, identified vegetation and geologic resources, and monitored watershed conditions.	

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### EDUCATION

- Ph.D. University of Wisconsin-Madison. Development Studies, Land Tenure Center. 1983  
Thesis title: "Managing public lands in a subsistence economy: The perspective from a Nepali village."
- M.Sc. University of Wisconsin-Madison. Water Resources Management. 1978
- B.A. Grinnell College, Grinnell, Iowa. Biology. 1973

### PROFESSIONAL AFFILIATIONS

American Society for Photogrammetry and Remote Sensing, Association of American Geographers, Association of Asian Studies, Borneo Research Council, International Association for the Study of Common Property

### PROFESSIONAL SKILLS

Languages: English (mother tongue), Nepali, Bahasa Indonesia, some Khmer.  
Computer: GIS, word processing, statistics, database management.

### GRANTS

Generated \$9 million dollars in grants and contracts since 1990 from agencies representing university, government, and private foundations. Specific grants include:

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- Twenty-five years of community forestry: Mapping forest dynamics in the middle hills of Nepal. April 2015 through March 2018. NASA \$750,000.
- Forest, agricultural, and urban transitions in Mainland Southeast Asia: Synthesizing knowledge and developing theory. April 2014 through March 2017. NASA. \$750,000.
- Rural to urban transitions and the peri-urban interface: Identifying, mapping, and understanding peri-urban areas in India and Pakistan. U.S. Department of State. September 2011 through August 2013. \$299,517 (P.I. Sumeet Saksena).
- Natural resource management, democracy, and human rights: Building capacity for community-based resource management, enhancing resource rights, and strengthening civil society in Kachin State. U.S. Department of State. June 2010 through June 2014. \$239,802.
- Coupled Natural-Human Systems and Emerging Infectious Diseases: Anthropogenic environmental change and avian influenza in Vietnam. U.S. National Science Foundation. August 2009 to July 2014. \$1,398,380.
- The expansion of rubber and its implications for water and carbon dynamics in Montane Mainland Southeast Asia. April 2008 to September 2013. NASA \$827,000.
- Integrated Protected Area Co-management (IPAC) Project in Bangladesh, January 2009 to June 2013. International Resources Group and the United States Agency for International Development. \$302,017
- Co-management of Tropical Forest Resources in Bangladesh. June 2005 to February 2008. International Resources Group and the United States Agency for International Development. \$189,926.
- Understanding dynamic resource management systems and land cover transitions in Montane Mainland Southeast Asia. September 2004 to August 2007. U.S. National Science Foundation. \$550,000.

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- The role of land-cover change in montane mainland SE Asia in altering regional hydrological processes under a changing climate. October 2003 to September 2006. NASA \$900,000.
- Natural resources and violent ethnic conflict in the Asia/Pacific region. April 2004 to May 2005. U.S. Institute for Peace. \$45,000.
- Spatial information technology and society: Ethics, values, and practice. October 2002 to September 2004. National Science Foundation \$118,142 and Rockefeller Brothers Fund \$30,000.
- Biocomplexity—Incubation Activity: Human actions and land-use/land-cover change. October 2000 to February 2003. National Science Foundation. \$100,000.
- Mapping resource tenure in the Mekong Basin: Laos, Northern Thailand, and Yunnan. July 2000 to September 2002. Rockefeller Brothers Fund. \$80,000.
- Mapping the landscape: Using spatial information to improve the management and development of protected areas. June 2000 to May 2002. Ford Foundation. \$121,000.
- Building regional, national, and local capacities for community-based management of natural resources in Asia. July 1999 to August 2005. Ford Foundation. \$478,000.
- Workshop on Adaptive Collaborative Management of Forest Resources. Center for International Forestry Research (CIFOR), October 1998 to October 1999. \$68,000.
- Expanding the use of remotely sensed information for detecting and evaluating environmental change in Asia. National Aeronautics and Space Administration. October 1997 to September 1998. \$175,500.
- Influence of forest fragmentation on watershed functions in northern Vietnam. National Science Foundation. January 1997 to December 1998. \$413,749.
- Spatial information, resource management, and landscape ecology, in Nusa Tenggara, Indonesia. Ford Foundation, Jakarta. January 1997 to December 1998. \$208,000.
- Long-term land use and political economy in Angkor Borei, Takeo Province, Cambodia. University of Hawaii/East-West Center Collaborative Program. 1996. \$30,000.
- Spatial information and natural resource management in Asia. Rockefeller Brothers Fund. March 1994 to June 1997. \$119,000.
- Support for community management of government forestlands in Asia. Ford Foundation, New York City. January 1994 to December 1996. \$276,600.
- Geographic information systems and social science data: The problem of spatial analysis. UH-EWC Collaborative Research Program. May 1993 to June 1994. \$14,500.
- Support for social forestry programs in India and Nepal. Ford Foundation, New Delhi, India. May 1991 to September 1993. \$297,000.
- Technical support for community management of government forest lands in Asia. Ford Foundation, Jakarta, Indonesia. August 1990 to September 1992. \$245,600.
- Land-use practices in Northern Thailand: Impacts on landscape dynamics. A project in collaboration with Chiang Mai University and Argonne National Laboratory. Funded by the U.S. Man and the Biosphere Program. May 1990. \$50,000.

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**SELECTED PUBLICATIONS****Referred journal articles:**

- Giambelluca, T.W., R.G. Mudd, W. Liu, A.D. Ziegler, N. Kobayashi, T. Kumagai, Y. Miyazawa, T. K. Lim, M. Huang, J. Fox, S. Yin, S. V. Mak, P. Kasemsap. 2016. Evapotranspiration of rubber (*Hevea brasiliensis*) cultivated at two plantation sites in Southeast Asia. *Water Resources Journal*. DOI: 10.1002/2015WR017755
- Tran, C.C., J.F. Yanagida, S. Saksena and J. Fox. 2016. An Alternative Vaccination Approach for the Prevention of Highly Pathogenic Avian Influenza Subtype H5N1 in The Red River Delta, Vietnam—A Geospatial-Based Cost-Effectiveness Analysis. *Veterinary Sciences* 3 (1): 6-20.
- Saksena, S., J. Fox, M. Epprecht, C. C. Tran, D. H. Nong, J. H. Spencer, L. Nguyen, M. L. Finucane, V. D. Tran, and B. A. Wilcox. 2015. Evidence for the Convergence Model: the Emergence of Highly Pathogenic Avian Influenza (H5N1) in Viet Nam. *PLoS ONE* 10(9): e0138138. doi:10.1371/journal.pone.0138138.
- Ahrends, A., P. Hollingsworth, A. Ziegler, J. Fox, H. Chen, Y.Su, and J. Xu. 2015. Current trends of rubber plantation expansion may threaten biodiversity and livelihoods. *Global Environmental Change*. 34: 48-58
- Baird, I. and J. Fox. 2015. How land concessions affect places elsewhere: Telecoupling, political ecology, and large scale plantations in Southern and Laos and Northeast Cambodia. *Land* (4): 436-453.
- Nong, D.H., J.Fox. And T. Miura. 2015. Built-up Area Change Analysis in Hanoi using Support Vector Machine Classification of Landsat Multi-temporal Image Stacks and Population Data. *Land* 4(4): 1213-1231.
- Kumagai, T., R.G. Mudd, T. Giambelluca, N. Kobayashi, Y. Miyazawa, T. K. Lim, W. Liu, M. Huang, J. Fox, A. Ziegler, S. Yin, S. V. Mak, P. Kasemsap. 2015. How do rubber (*Hevea brasiliensis*) plantations behave under seasonal water stress in northeastern Thailand and central Cambodia? *Agricultural and Forest Meteorology*. 213: 10-22.
- Fox, J. 2014. Through the technology lens: The expansion of rubber and its implications in Montane Mainland Southeast Asia. Vandergeest, P. and S. Gururani (Eds.) Special Issue on Changing Frontiers of Ecological Knowledges in Asia. *Conservation and Society*. 12 (4): 418-424.
- Fox, J., J-C. Castella, A. D. Ziegler, and S. B. Westley. 2014. Expansion of rubber monocropping and its implications for the resilience of ecosystems in the face of climate change in Montane Mainland Southeast Asia. *Global Environmental Research* 18 (2):145-150.
- Fox, J., J.C. Castella, and A. Ziegler. 2014. Swidden, Rubber and Carbon: Can REDD+ work for people and the environment in Montane Mainland Southeast Asia? *Global Environmental Change* 29:318-326.
- Castrence, M., D. Nong, C. Tran, L. Young, and J. Fox. 2014. Mapping Urban Transitions Using Multi-Temporal Landsat and Dmsp-Ols Night-Time Lights Imagery of the Red River Delta in Vietnam. *Land* 3(1): 148-66.

- Choenkwan, S., J. Fox, and A.T. Rambo. 2014. Agriculture in the Mountains of Northeastern Thailand: Current Situation and Prospects for Development. *Mountain Research and Development*. 34(2): 95-106.
- Finucane, M.L., Nghiem, T., Saksena, S. Nguyen, L., Fox, J.M., Spencer, J. H., Trinh Dinh, T. 2014. An Exploration of How Perceptions of the Risk of Avian Influenza in Poultry Relate to Urbanization in Vietnam. *EcoHealth*. DOI: 10.1007/s10393-014-0906-2.
- Herrmann, S. and Fox, J.M., 2014. Assessment of rural livelihoods in South-West China based on environmental, economic, and social indicators. *Ecological Indicators* 36:746-748.
- Kontgis, C., A. Schneider, J. Fox, S. Saksena. J. Spencer, M. Castrence. 2014. Monitoring peri-urbanization in the greater Ho Chi Minh city metropolitan area. *Applied Geography* 53: 377-388.
- Saksena, S., J. Fox, J. Spencer, M. Castrence, M. DiGregorio, M. Epprecht, N. Sultana, M. Finucane, L. Nguyen T.D. Vien. 2014. Classifying and Mapping the Urban Transition in Vietnam. *Applied Geography* 50: 80-89.
- Ziegler, A. D., S.G. Benner, C. Tantasirin, S.H. Wood, R.A. Sutherland, R. C. Sidle, R. C., N. Jachowski, M.A. Nullet, L. X. Xi, A. Snidvongs, T. W. Giambelluca, and J.M. Fox. 2014. Turbidity-based sediment monitoring in northern Thailand: Hysteresis, variability, and uncertainty. *Journal of Hydrology*. 519: 2020-2039.
- Fox, J. and J. C. Castella. 2013. Expansion of rubber (*Hevea brasiliensis*) in mainland Southeast Asia: What are the prospects for small holders? *Journal of Peasant Studies*. 40 (1): 155-170.
- Tran, C.C., R. S. Yost, J.F. Yanagida, S. Saksena, J. Fox and N. Sultana. 2013. Spatio-Temporal Occurrence Modeling of Highly Pathogenic Avian Influenza Subtype H5N1: A Case Study in the Red River Delta, Vietnam. *ISPRS International Journal of Geo-Information* 2: 1106-1121.
- Sen, O.L., D. Bozkurt, J.B. Vogler, J. Fox, T.W. Giambelluca and A.D. Ziegler. 2012. Hydro-climatic effects of future land-cover and land-use change in Montane Mainland Southeast Asia. *Climate Change*. DOI 10.1007/s10584-012-0632-0
- Fox, J., J.B. Vogler, O.L. Sen, T. Giambelluca, and A. Ziegler. 2012. Simulating land-cover change in Montane Mainland Southeast Asia. *Environmental Management* 49 (4): 968-979. [http://dx.DOI 10.1007/s00267-012-9828-3](http://dx.doi.org/10.1007/s00267-012-9828-3).
- Ziegler, A.D., J. Phelps, J.Q. Yuen, E.L. Webb, D. Lawrence, J.M. Fox, T.B. Bruun, S.J. Leisz, C. Ryan, W. Dressler, O. Mertz, U. Pascual, C. Padoch, L.P. Koh . 2012. Carbon outcomes of major land-cover transitions in SE Asia: Great uncertainties and REDD+ policy implications. *Global Change Biology*. doi: 10.1111/j.1365-2486.2012.02747.x
- van Vliet, N. O. Mertz, A. Heinimann, T. Langanke, U. Pascual, B. Schmook, C. Adams, D. Schmidt-Vogt, P. Messerli, S. Leisz, J.C. Castella, L. Jørgensen, T. Birch-Thomsen, C. Hett, T. Bech-Bruun, A. Ickowitz, K. C. Vu, K. Yasuyuki, J.Fox, C. Padoch, W. Dressler, A. D. Ziegler. 2012. Trends, drivers and impacts of changes in swidden cultivation in tropical forest-agriculture frontiers: A global assessment. *Global Environmental Change* 22 (2): 418-429. <http://dx.doi.org/10.1016/j.gloenvcha.2011.10.009>
- Mukul, S.A., A.M. Rashid, S.A. Quazi, M.B. Uddin, and J. Fox. 2012. Local peoples' responses to comanagement regime in protected areas: A case study from Satchari National Park, Bangladesh. *Forests, Trees and Livelihoods* 21(1): 16-29. DOI:10.1080/14728028.2012.669132.

- Fox J, J.C. Castella and A.D. Ziegler. 2011. Swidden, Rubber and Carbon: Can REDD+ work for people and the environment in Montane Mainland Southeast Asia? CCAFS Working Paper no. 9. CGIAR Research Program on Climate Change, Agriculture and Food Security (CAAFS). Copenhagen, Denmark. Available online at: [www.ccafs.cgiar.org](http://www.ccafs.cgiar.org).
- Li, Z. and J. Fox. 2011. Mapping rubber tree growth in mainland Southeast Asia using time-series MODIS 250 m NDVI and statistical data *Applied Geography* 32: 420-432.
- Evans, T.P., K. Phanvilay, J. Fox, and J. Vogler. 2011. An agent-based model of agricultural innovation, land-cover change and household inequality: the transition from swidden cultivation to rubber plantations in Laos PDR. *Journal of Land Use Science*.
- Li, Z. and J. Fox. 2011. Rubber Tree Distribution Mapping in Northeast Thailand. *International Journal of Geosciences* 2: 573-584. <http://dx.doi.org/10.4236/ijg.2011.24060>
- Li, Z. and J. Fox. 2010. Integrating Mahalanobis typicalities with a neural network for rubber distribution mapping. *Remote Sensing Letters* 2(2): 157-166. First published on: 13 October 2010. <http://dx.doi.org/10.1080/01431161.2010.505589>
- Ziegler, A.D., J.M. Fox, E.L. Webb, C. Padoch, S. Leisz, R. A. Cramb, O. Mertz, T.B. Brunn, and Tran Duc Vien. 2011. Recognizing Contemporary Roles of Swidden Agriculture in Transforming Landscapes of Southeast Asia. *Conservation Biology*, 25 (4): 846–848.
- Cuo, L., J. Vogler, J. Fox. 2010. Topographic normalization for improving vegetation classification in a mountainous watershed in Northern Thailand. *International Journal of Remote Sensing*.
- Mukul, S.A., M.B. Uddin, A.Z.M. Rashid, and J. Fox. 2010. Integrating livelihoods and conservation in protected areas: Understanding the role and stakeholder views on prospects for non-timber forest products, a Bangladesh case study. *International Journal of Sustainable Development & World Ecology* 17(2):180-188.
- Fox, J., J. Vogler, and M. Poffenberger. 2009. Understanding changes in land and forest resource management systems: Ratanakiri, Cambodia. *Southeast Asian Studies* 47(3):309-329.
- Fox, J., Y. Fujita, D. Ngidang, N. Peluso, L. Potter, N. Sakuntaladewi, J. Sturgeon and D. Thomas. 2009. Policies, Political-Economy, and Swidden in Southeast Asia. *Human Ecology*. 37 (3) 305-322. <http://springerlink.com/content/67302684057020m1/fulltext.pdf>
- Mertz, O., C. Padoch, J. Fox, R. A. Cramb, S. J. Leisz, T. L. Nguyen, and D. V. Tran. 2009. Swidden Change in Southeast Asia: Understanding Causes and Consequences. *Human Ecology*. 37 (3): 259-264.
- Ziegler, A.D., J. Fox and J. Xu. 2009. The Rubber Juggernaut. *Science* 324: 1024-1025.
- Fox, J. and A. Swamy. 2008. Introduction: Natural resources and ethnic conflicts in the Asia Pacific. *Asia Pacific Viewpoint* 49(1): 1-11.
- Rindfuss, R., B. Entwisle, S. Walsh, Li An, N. Badenoch, D. Brown, P. Deadman, Tom Evans, J. Fox, J. Geoghegan, M. Gutmann, M. Kelly, M. Linderman, J. Liu, G. Malanson, C. Mena, J. Messina, E. Moran, D. Parker, W. Parton, P. Prasartkul, D. Robinson, Y. Sawangdee, L. VanWey, P. Verburg, and Gang Zhong. 2008. Land Use Change: Complexity and Comparisons. *Journal of Land Use Science* 3(1): 1:10.
- Fox, J., P. Herschock, K. Suryanata, and A. Pramono. 2007. Socio-ethical dimensions of spatial information technology. *GIS Development* 11 (8): 34-36.

- Padoch, C. K. Coffey, O. Mertz, s. Leisz, J. Fox and R. Wadley. 2007. The demise of swidden in Southeast Asia? Local realities and regional ambiguities. *Danish Journal of Geography*. 107(1): 29-42.
- Ziegler, A., T. Giambelluca, D. Plondke, S. Leisz, L. Tran, J. Fox, M. Nullet, J. Vogler, D. M. Troung, T.D. Vien. 2007. Hydrological consequences of landscape fragmentation in mountainous northern Vietnam: Buffering of Hortonian overland flow. *Journal of Hydrology* 337:52-67.
- Xu, J., Y. Yang, J. Fox, and X. Yang. 2007. Forest transition, its causes and environmental consequences: empirical evidence from Yunnan of Southwest China. *Tropical Ecology*, 48(2): 137-150.
- Xu, J., J. Fox, D. Melick, Y. Fujita, A. Jintrawet, Q. Jie, D. Thomas, and H. Weyerhaeuser. 2006. Land use transition, livelihoods, and environmental services in Montane Mainland Southeast Asia. *Mountain Research and Development* 26(3):278-284.
- Kapan, D., S. Bennett, B. Ellis, J. Fox, N. Lewis, J. Spencer, S. Saksena, and B. Wilson. 2006. Avian influenza (H5N1) and the evolutionary and social ecology of infectious disease emergence. *EcoHealth* 3(3): 187-194.
- Fox, J. and J. Vogler. 2005. Land-use and Land-cover Change in Montane Mainland Southeast Asia. *Environmental Management*. 36 (3): 394-403.
- Thongmanivong, S., Y. Fujita, and J. Fox. 2005. Resource Use Dynamics and Land-Cover Change in Ang Nhai Village and Phou Phanang National Reserve Forest, Lao PDR. *Environmental Management*: 36 (3): 382-393.
- Xu Jianchu, J. Fox, Zhang Peifang, Fu Yongshou, Yang Lixin, Qian Jie, S. Leisz and J. Vogler. 2005. Land-use/land-cover change and farmer vulnerability in Xishuangbanna. *Environmental Management*. 36 (3): 404-413.
- Rindfuss, R., S. Walsh, B. Turner, J. Fox and V. Mishra. 2004. Developing a science of land change: Challenges and Methodological Issues. *PNAS* 101 (39): 13976-13981.
- Ziegler, A.D., T.W. Giambelluca, L.T. Tran, T.T. Vana, M.A. Nullet, J. Fox, T.D. Vien, J. Pinthong, J.F. Maxwell, S. Evett. 2003. Hydrological consequences of landscape fragmentation in mountainous northern Vietnam: Evidence of accelerated overland flow generation. *Journal of Hydrology* 287(1-4): 124-146.
- Vanderveest, P., K. Phanvilay, Y. Fujita, J. Fox, P. Hirsch, P. Van Esterik, C. Withayapak, and S. Tyler. 2003. Flexible networking in research capacity building at the National University of Laos: Lessons for North-South collaboration. *Canadian Journal of Development Studies*, XXIV (1): 119-135.
- Fox, J. 2002. Siam mapped and mapping in Cambodia: Boundaries, sovereignty, and indigenous conceptions of space. *Society and Natural Resources* 15:65-78.
- Fox J., Dao Minh Truong, A Terry Rambo, Nghiem Phuong Tuyen, Le Trong Cuc, and Stephen Leisz. 2000. Shifting cultivation: A new old paradigm for managing tropical forests. *BioScience* 50 (6): 521-528.
- Fox, J., and J. Ledgerwood. 1999. Dry season flood-recession rice in the Mekong delta: Two thousand years of sustainable agriculture? *Asian Perspectives* 38(1):37-50.
- Long Chun-lin, Jefferson Fox, Lu Xing, Gao Lihong, Cai Kui, and Wang Jieru. 1999. State policies, markets, land-use practices, and common property: Fifty years of change in Yunnan, China. *Mountain Research and Development* 19(2):133-139.

- Xu Jianchu, Jefferson Fox, Lu Xing, Nancy Podger, Stephen Leisz & Ai Xihui. Effects of swidden cultivation, population growth, and state policies on land cover in Yunnan, China. 1999. *Mountain Research and Development* 19(2):123-132.
- Giambelluca, T., Jefferson Fox, S. Yarnasarn, P. Onibutr, M. Nullet. 1999. Dry-season radiation balance of land covers replacing forest in northern Thailand. *Agricultural and Forest Meteorology*. 95(1): 53-65.
- Fox, J. 1998. Mapping the commons. The social context of spatial information technologies. *The Common Property Resource Digest*. No 45:1-4.
- Fox, J., and K. Atok. 1997. Forest-dweller demographics in West Kalimantan, Indonesia. *Environmental Conservation* 24(1):31-37.
- Fox, J., P. Yonzon, and N. Podger. 1996. Mapping conflicts between biodiversity and human needs in Langtang National Park. *Conservation Biology* 10(2):562-569.
- Fox, J., J. Krummel, M. Ekasingh, S. Yarnasarn, and N. Podger. 1995. Land-use and landscape dynamics in Northern Thailand: Assessing change in three upland watersheds since 1954. *Ambio* 24(6):328-334.
- Freeman, W., and J. Fox. 1995. ALAWAT: A spatially allocated watershed model for approximating stream, sediment, and pollutant flows in Hawaii. *Environmental Management* 19(4):567-578. Reprinted in East-West Center Reprints, Environment Series No. 32.
- Fox, J.M. (ed.). 1995. Introduction: Society and non-timber forest products in Asia, Papers presented at XVII Pacific Science Congress (27 May-2 June 1991), Honolulu, HI. *Society and Natural Resources* 8(3): 189-191.
- Sirait, M., S. Prasodjo, N. Podger, A. Flavelle, and J. Fox. 1994. Mapping customary land in East Kalimantan, Indonesia: A tool for forest management. *Ambio* 23(7):411-417.
- Fox, J., R. Kanter, S. Yarnasarn, M. Ekasingh, and R. Jones. 1994. Farmer decision making and spatial variables in Northern Thailand. *Environmental Management* 18(3):391-399.
- Fox, J.M. 1993. Forest resources in a Nepali Village: The positive influence of population growth. *Mountain Research and Development* 13(1):89-98.
- Fox, J.M. 1992. The problem of scale in community resource management programs. *Environmental Management* 16(3):289-297. Reprinted in East-West Center Reprints, Environment Series No. 5.
- Yonzon, P., R. Jones, and J. Fox. 1991. GIS for assessing habitat and estimating population of red pandas, Langtang National Park, Nepal. *Ambio* 20(7):293-297.
- Fox, J.M. 1991. Spatial information for resource management in Asia: A review of institutional issues. *International Journal of GIS* 5(1):59-72. Reprinted in East-West Center Reprints, Environment Series No. 3.
- Fox, J.M., M. Bratamihardja, and Poedjorahardjo. 1990. Social forestry planning: Searching for a middle way. *ODI Social Forestry Newsletter*, Network Paper 10D, London.
- Fox, J.M. 1989. Diagnostic tools for social forestry. *Journal of World Forest Resource Management* 4:61-77. Reprinted in M. Poffenberger (ed.), *Keepers of the Forest: Land Management Alternatives in Southeast Asia*. West Hartford, CT: Kumarian, 1990.
- Fox, J.M. 1988. Two roles for natural scientists in the management of tropical watersheds: Examples from Nepal and Indonesia. *The Environmental Professional* 9:59-66.
- Fox, J.M. 1988. Livestock ownership patterns in a Nepali village. *Mountain Research and Development* 7(2):169-172.



Fox, J.M., and P. Suharsono. 1986 Land, land dissection and land cover in East Java. *ITC Journal* 2:164-169.

Fox, J.M. 1984. Firewood consumption in a Nepali village. *Environmental Management* 8(3):243-250.

### **Refereed articles in edited books**

Fox, J. 2014. The production of forests: Tree cover transitions in Northern Thailand, Northern Laos, and Southern China. In Hecht, S., K. Morrison, and C. Padoch (Eds). *The Social Life of Forests*. University of Chicago Press. Chicago.

Finucane, M., J. Fox, S. Saksena, and J. Spencer. 2014. A conceptual framework for analyzing social-ecological models of emerging infectious disease. In Manfredo, M., A. Rechkemmer and J. Vaske (Eds). *Understanding Society and Natural Resources: Forging new Strands of Integration Across the Social Sciences*. New York: Springer.

Fox, J., J. B. Vogler, O.L. Sen, A. L. Ziegler and T. W. Giambelluca. 2014. Regional Scenarios and Simulated Land-Cover Changes in Montane Mainland Southeast Asia. In A. K. Braimoh, and H.Q. He (Eds). *Vulnerability of Land Systems in Asia*. John Wiley & Sons.

Lestrelin, G., J.C. Castella, and J. Fox. 2013. Forest transitions in Southeast Asia: Synergies and shortcomings in land-change science and political ecology. In C. Brannstrom and J. M. Vadjunec (Eds). *Land Change Science, Political Ecology, and Sustainability Science: Synergies and Divergences*. Earthscan/Routledge.

Fox, J. and M. Poffenberger. 2012. Land Use and Forest Change in Ratanakiri. Poffenberger M. and K. Smith-Hanssen (Eds). *Contested forest domain: The role of community forestry in the new millennium*. Ateneo University Press. Manila.

Guardiola-Claramonte, M., J. Fox, T. Giambelluca, and P. Troch. 2010. Changing Land Use in the Golden Triangle: Where the Rubber Meets the Road. J. Roumasset, K. Burnett, and A. Balisacan (eds.) *Sustainability Science for Watershed Landscapes*. Singapore: ISEAS Publishing.

Fox, J. 2009. Forest interrupted: Tat hamlet and the political ecology of swidden agriculture. In Tran Duc Vien, A.T. Rambo, and Nguyen Thanh Lam (eds.) *Farming with Fire and Water: The Human Ecology of a Composite Swiddening Community in Vietnam's Northern Mountains*. Kyoto, Japan: Kyoto University Press.

Fox, J., K. Suryanata, P. Hershock, A. H. Pramono. 2009. Mapping communities: The socio-ethical dimension of participatory mapping. In R. Fisher, B. Myers M. Sanam, and V. Tarus (eds.) *GIS Applications for sustainable development and good governance in Eastern Indonesia and Timor Leste*. Darwin, Australia: Charles Darwin University Press.

Fox, J., K. Suryanata, P. Hershock, and A. Pramono. 2008. Mapping boundaries, Shifting Power: The social-ethical dimensions of participatory mapping. In M. Goodman, M. Boykoff, K. Evered (eds.) *Contentious Geographies: Environmental Knowledge, Meaning, Scale*. Hampshire, England: Ashgate Publishing Ltd.

Fox, J., A.T. Rambo, D. Donovan, Le Trong Cuc, T. Giambelluca, A. Ziegler, D. Plondke, Tran Duc Vien, S. Leisz, and Dao Minh Truong. 2003. Linking Household and Remotely Sensed Data for Understanding Forest Fragmentation in Northern Vietnam. In J. Fox, R. Rindfuss, S. Walsh, and V. Mishra (eds.) *People and the environment: Approaches for*

- 
- Linking Household and Community Surveys to Remote Sensing and GIS*. Boston: Kluwer Academic Press.
- Rindfuss, R., S. Walsh, V. Mishra, J. Fox, and G. Dolcemacolo. 2003. Linking household and remotely sensed data: Methodological and practical problems. In J. Fox, R. Rindfuss, S. Walsh, and V. Mishra (eds.) *People and the environment: Approaches for Linking Household and Community Surveys to Remote Sensing and GIS*. Boston: Kluwer Academic Press.
- Fox, J. 2002. Understanding a dynamic landscape: Land use, land cover, and resource tenure in Northeastern Cambodia. In S. Walsh and K. Crews-Meyer (eds.) *Linking People, Place, and Policy: A GIScience Approach*. Boston, Kluwer Academic Publishers.
- Fox, J., S. Leisz, Dao Minh Truong, A. T. Rambo, Nghiem Phuong Tuyen, and Le Trong Cuc. 2001. Shifting cultivation without deforestation: A case study in the mountains of northwestern Vietnam. In Millington, Walsh, and Osborne (eds). *Applications of GIS and Remote Sensing in Biogeography and Ecology*. Boston, Kluwer Academic Publishers.
- Fox, J. 2001. Land use and land cover change in montane mainland Southeast Asia. In Singh, Fox, and Himiyama (editors). *Land use and cover change*. Enfield, N.H., Science Publishers.
- Fox, J. 2000. Land-use and land-cover change in Nusa Tenggara Timur, Indonesia. In J Russell-Smith, G. Hill, S. Djoroemana, and B. Myers (eds.). *Fire and Sustainable Agricultural and Forestry Development in Eastern Indonesia and Northern Australia*. Canberra, Australian Center for International Agricultural Research.
- Donovan, D., A. Rambo, J. Fox, Le Trong Cuc, and Tran Duc Vien (eds.). 1997. *Development Trends in Vietnam's Northern Mountain Region*. Hanoi, National Political Publishing House.
- Fox J., and D. Donovan. 1996. Social forestry and institutional changes in upland development: Lessons from Asia. In A.T. Rambo et. al., (eds.). *Development Trends in Vietnam's Northern Mountain Region*. Final report of a study conducted for the Swedish International Development Cooperation Agency. Honolulu, East-West Center.
- Fox, J.M. 1993. Threatened places: The tragedy of the open access. In H. Brookfield and Y. Byron (eds.), *South-East Asia's environmental future: The search for sustainability*. Kuala Lumpur, Oxford.
- Fox, J.M. 1987. Why land evaluations for agriculture go awry. In K. Beek, P. Burrough, and D. McCormack (eds.), *Quantified Land Evaluation Procedures*. Enschede, Netherlands, ITC Publications No. 6.

**Edited books**

- Fox, J., R. Rindfuss, S. Walsh, and V. Mishra (editors). 2003. *People and the environment: Approaches for Linking Household and Community Surveys to Remote Sensing and GIS*. Boston: Kluwer Academic Press.
- Singh, R.B., J. Fox., and Y. Himiyama (eds.) . 2001. *Land use and cover change*. Science Publishers, Enfield, N.H.
- Donovan, D., A. Rambo, J. Fox, Le Trong Cuc, and Tran Duc Vien (eds.). 1997. *Development Trends in Vietnam's Northern Mountain Region*. Hanoi: National Political Publishing House.

---

Sullivan, G., S. Huke, and J. Fox (eds.). 1992. *Financial and Economic Analysis of Agroforestry Systems*, 312 pp., Nitrogen Fixing Tree Association, Paia, HI.

***East-West Center Publications***

- Fox, J.M., Castella, J.-C., Ziegler, A.D., Westley, S.B., 2014. Rubber Plantations Expand in Mountainous Southeast Asia: What Are the Consequences for the Environment? *Asia-Pacific Issues*, No. 114, East-West Center, Honolulu.
- Fox, J., M.G. Mustafa, B. Bushley, S. Brennan, and L. Durand (editors). 2013. *Connecting Communities and Conservation: Co-management initiatives implemented by IPAC in wetlands and forests of Bangladesh*. Dhaka. East-West Center, WorldFish, and Integrated Protected Area Co-management (IPAC) Project of Bangladesh Forest Department. 206 pages.
- Fox, J., M.G. Mustafa, S.A. Quazi, W.B. Miles, E.J. Cunningham, M. Chassels (editors). 2011. *Rural Livelihoods and Protected Landscapes: Co-management in the Wetlands and Forests of Bangladesh*. Dhaka. East-West Center and Integrated Protected Area Co-Management in Bangladesh Program of Bangladesh Forest Department. 204 pages.
- Fox, J. 2009. *Crossing Borders, Changing Landscapes: Land-Use Dynamics in the Golden Triangle*. East-West Center Asia Pacific Issues Paper No. 92. Honolulu, HI.
- Fox, J., B. Bushley, W. B. Miles, and S. A. Quazi (editors). 2009. *Connecting Communities and Conservation: Collaborative Management of Protected Areas in Bangladesh*. Dhaka. East-West Center and Nishorgo Program of Bangladesh Forest Department. 282 pages.
- Fox, J., B. Bushley, S. Dutt, and S. Quazi (editors). 2007. *Making Conservation Work: Linking rural livelihoods and protected area management in Bangladesh*. Dhaka. East-West Center and Nishorgo Program of Bangladesh Forest Department. 176 pages.
- Muhangty, S., J. Fox, M. Nurse, P. Stephen, and L. McLees. 2006. *Hanging in the balance: Equity in community-based natural resource management in Asia*. Bangkok: Regional Community Forestry Training Center and East-West Center.
- Fox, J., K. Suryanata, and P. Hershock (editors). 2005. *Mapping Communities: Ethics, Values, Practice*. Honolulu: East-West Center.
- Fox, J., K. Suryanata, P. Hershock, and A. Pramono. 2005. *Mapping Power: Ironic effects of spatial information technology*. In J. Fox, K. Suryanata, and P. Hershock (Eds.). *Mapping Communities: Ethics, Values, Practice*. Honolulu: East-West Center.
- Hardiono, M., H. Radandima, K. Suryanata, and J. Fox. 2005. *Building local capacity in using SIT for natural resource management in East Sumba, Indonesia*. In J. Fox, K. Suryanata, and P. Hershock (Eds.). *Mapping Communities: Ethics, Values, Practice*. Honolulu: East-West Center.
- Fox, J., K. Suryanata, and B. Fisher. 2001. *Policy frameworks for enabling successful community-based resource-management initiatives: Papers from the Ninth Workshop on Community Management of Forest Lands*. Honolulu: Program on Environment, East-West Center.
- Fox, J. 2000. *How blaming 'slash and burn' farmers is deforesting mainland Southeast Asia*. East-West Center Asia Pacific Issues Paper No. 47. Honolulu, HI.

- Fox, J., L. Fisher, and C. Cook (eds.). 1997. *Conflict and Collaboration: Papers from the Eighth Workshop on Community Management of Forest Lands*. Honolulu: Program on Environment, East-West Center.
- Fox, J.M. (ed.). 1995. *Society and non-timber forest products in tropical Asia*, Program on Environment Occasional Paper No. 19, Honolulu, HI.
- Fox, J. 1995. Spatial information technology and human-environment relationships. Program on Environment Working Paper No. 43, Honolulu, HI.
- Fox, J. (ed.). 1994. Spatial information and ethnoecology: Case studies from Indonesia, Nepal, and Thailand. Program on Environment Working Paper No. 38, Honolulu, HI.
- Fox, J.M. (ed.). 1993. *Legal frameworks for forest management in Asia: Case studies of community-state relations*. Program on Environment Occasional Paper No. 16, Honolulu, HI.
- Fox, J.M., and R.J. Fisher (eds.) 1990. Community organization and government bureaucracies in social forestry. EAPI Working Paper No. 22, East-West Center, Honolulu, HI.
- Fox, J.M., and J. Chow. 1988. Geographic information systems for rural development: Appropriate technology or white elephant? EAPI Working Paper No. 6, East-West Center, Honolulu, HI.

### ***Encyclopedia Entries/Book Reviews/Letters to Editor/Reports***

- Fox, J., D. McMahon M. Poffenberger, and J. Vogler. 2008. Land for my Grandchildren: Land Use and Tenure Change in Ratanakiri: 1989-2007. Community Forestry International, Phnom Penh, Cambodia.
- Riambaldi, G., R. Chambers, M. McCall, and J. Fox. 2006. Practical ethics for PGIS practitioners, facilitators, technology intermediaries and researchers. Participatory learning and action. No. 54. IIED. London.
- Fox, J. 2006. Fallow. In H. Geist (ed.) *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Westport Ct.: Greenwood Press. (Pages 225-226).
- Fox, J. 2006. Slash-and-Burn Agriculture. In H. Geist (ed.) *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Westport Ct.: Greenwood Press. (Pages 534-536).
- Fox, J. 2006. Southeast Asia, Mainland. In H. Geist (ed.) *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Westport Ct.: Greenwood Press. (Pages 552-556).
- Fox, J. 2006. Swidden Cultivation. In H. Geist (ed.) *Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*. Westport Ct.: Greenwood Press. (Pages 582-583).
- Fox, J. 2001. Review of "Swidden Farming and Fallow Vegetation in Northern Thailand." By Dietrich Schmidt-Vogt. Franz Steiner Verlag. Stuttgart, 1999. 373 pp. *The Geographical Journal* 166(3): 271,
- Fox J., Dao Minh Truong, A Terry Rambo, Nghiem Phuong Tuyen, Le Trong Cuc, and Stephen Leisz. 2000. Letter to the editor in response to Norman Myers' comments on our article in the June issue. *BioScience* 50 (10): 846.

- 
- Fox, J., and W. Freeman. 1992. Watershed management plan for the Ala Wai Canal. Report R-89C, 213 pp., State of Hawaii, Department of Land and Natural Resources, Honolulu, HI.
- Fox, J.M. 1992. Transformation of Southeast Asian uplands: Implications for global environmental change. *Pacific Science Association Information Bulletin* 44(3/4):5-10.
- Fox, J.M., and R.J. Fisher. 1991. Community organizations and government bureaucracies in social forestry. In *Proc. Seminar on Research Policy for Community Forestry in the Asia-Pacific Region* (8-11 January), pp. 113-119. Bangkok: RECOFTC.
- Fox, J.M. 1989. GIS for rural development: The Citanduy Project. *Tropical Coastal Area Management Newsletter*, (ICLARM, Manila) 4(2):8-10.
- Fox, J.M. 1989. Remote sensing and resource management in the Himalayas. In *Proc. International Symposium on Mountain Environmental Management in the Hindu Kush-Himalayan Region* (11-14 April), pp. 52-53. Kathmandu: ICIMOD.
- Fox, J.M. 1985. Integrating remotely sensed and social science data for agricultural land-use planning. In *Proc. Regional Symposium on Remote Sensing Applications of Socioeconomic Aspects of the Environment*. Bangkok: ESCAP and the Ford Foundation.
- Fox, J.M. 1983. Managing public lands in a subsistence economy: The perspective from a Nepali village. Ph.D. dissertation, Development Studies, University of Wisconsin.